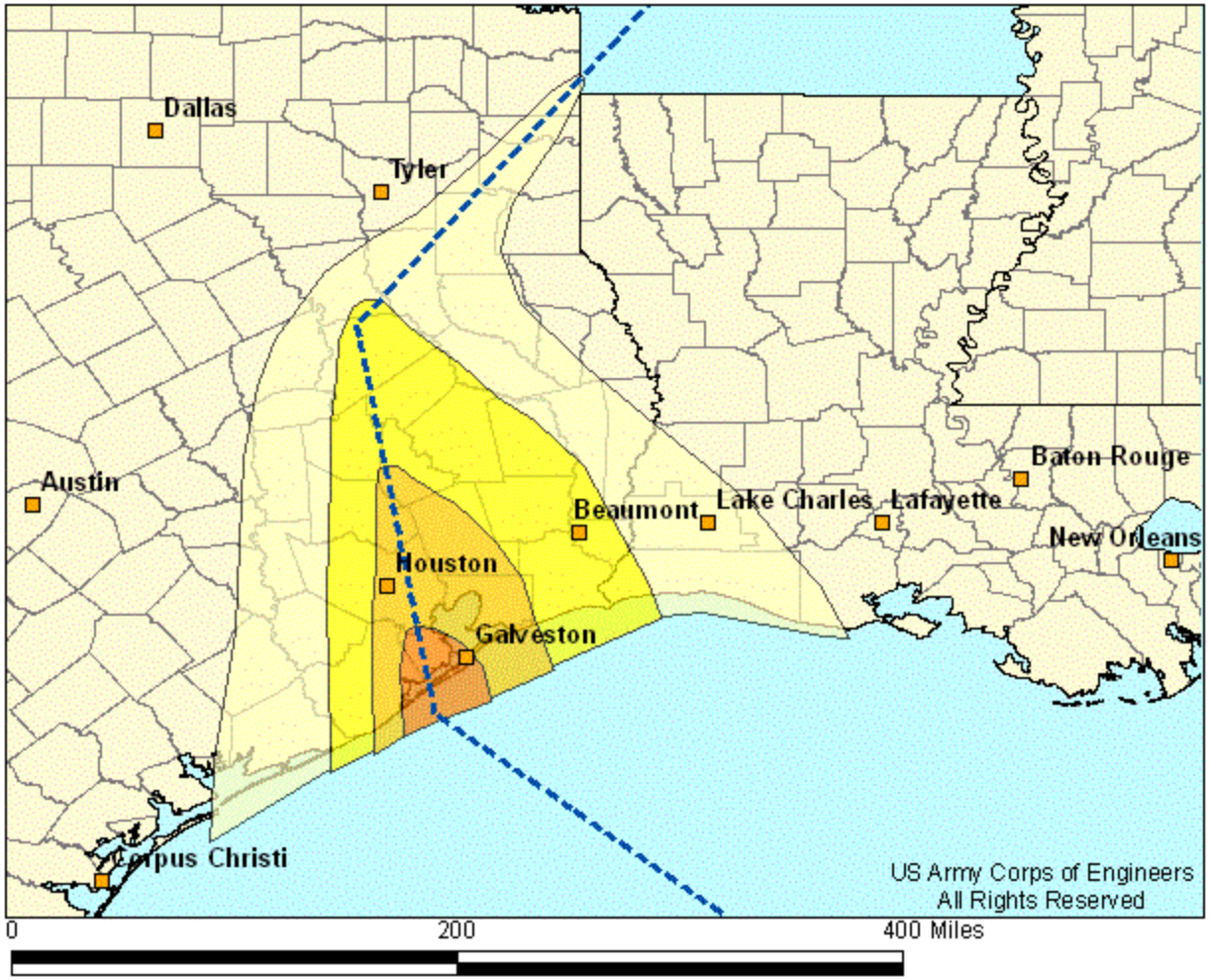
US Army Corps of Engineers

Hurricane Ike Projected Damage Areas

Landfall Expected In About 34 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

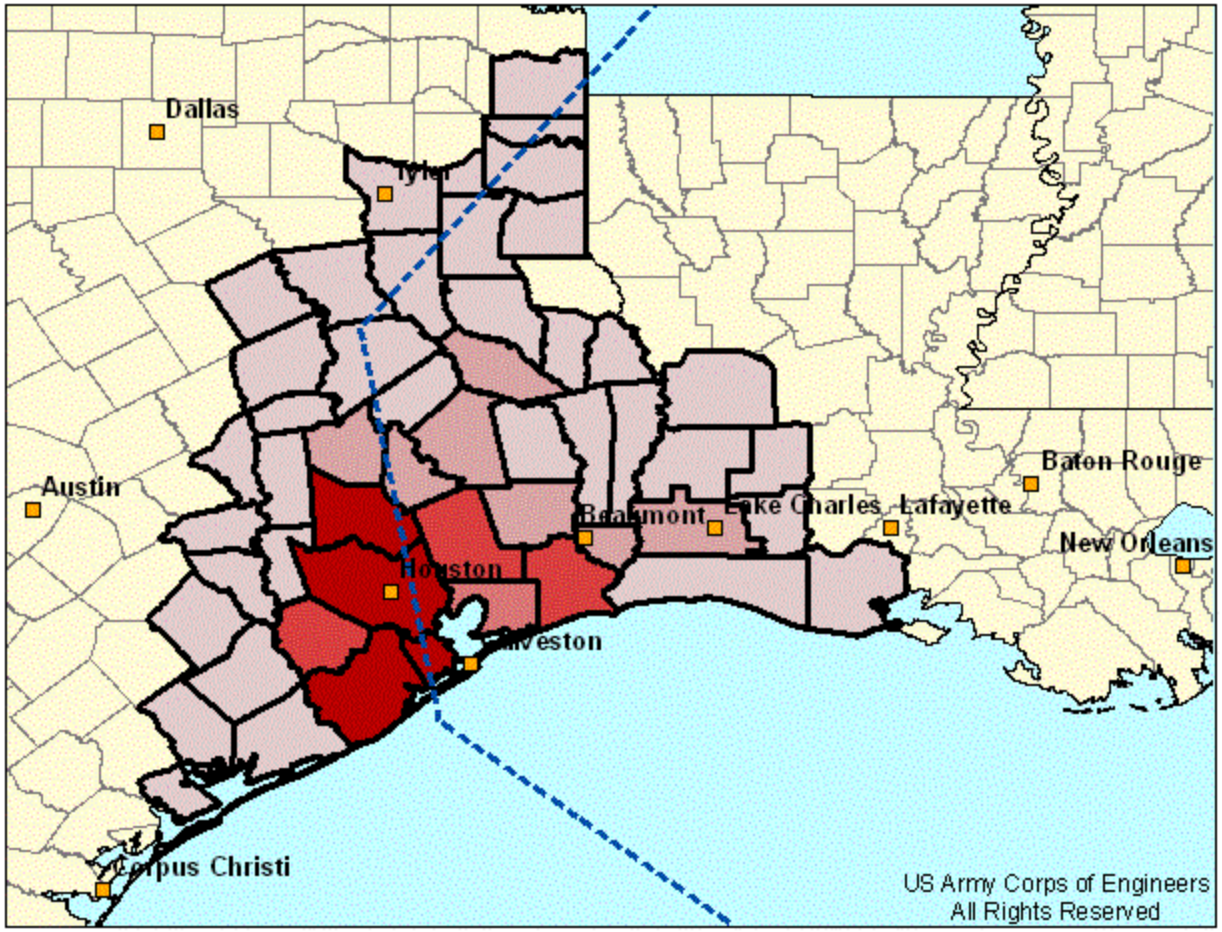
Hurricane Ike Projected Damage Areas	
Generated By: Siemsen/Deatrick, LRL 1730 EDT 09/11/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Ike Debris Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Texas - 34,952,000 Yards
Louisiana - 280,000 Yards

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ike Debris Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ike Debris Model

Landfall Expected In About 34 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Louisiana		Allen	< 1,000
		Beauregard	18,000
		Calcasieu	233,000
		Cameron	17,000
		Jefferson Davis	10,000
		Vermilion	2,000
		Vernon	< 1,000
Louisiana	280,000		
Texas		Anderson	59,000
		Angelina	121,000
		Austin	26,000
		Brazoria	1,889,000
		Brazos	8,000
		Calhoun	< 1,000
		Cass	8,000
		Chambers	300,000
		Cherokee	79,000
		Colorado	2,000
		Fort Bend	901,000
		Freestone	< 1,000
		Galveston	6,393,000
		Gregg	96,000
		Grimes	43,000
		Hardin	163,000
		Harris	20,236,000
		Harrison	66,000
		Houston	97,000
		Jackson	3,000
		Jasper	77,000
		Jefferson	694,000

State	Yards per State	County	Yards per County
Texas		Leon	26,000
(continued)		Liberty	763,000
		Madison	15,000
		Marion	8,000
		Matagorda	62,000
		Montgomery	1,649,000
		Nacogdoches	99,000
		Newton	30,000
		Orange	176,000
		Panola	4,000
		Polk	172,000
		Rusk	79,000
		Sabine	2,000
		San Augustine	7,000
		San Jacinto	160,000
		Smith	15,000
		Trinity	72,000
		Tyler	86,000
		Walker	157,000
		Waller	44,000
		Washington	6,000
		Wharton	59,000
Texas	34,952,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ike Debris Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

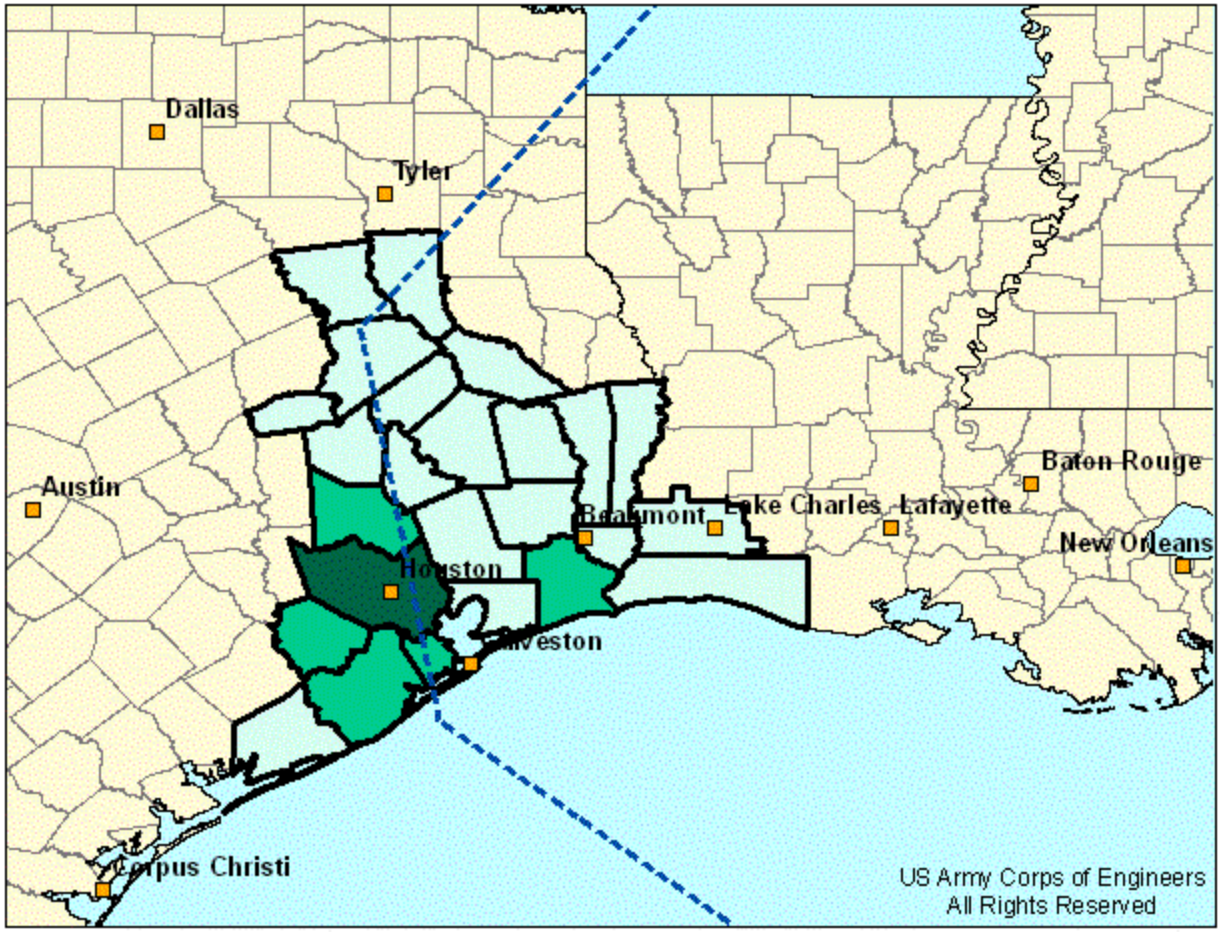
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ike Commodities Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Texas – 63/126/252 Truckloads
Louisiana – 2/2/2 Truckloads

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track
Historic Track

Commodities
- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC ***(1700 EDT 09/11/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ike Commodities Model	
Generated By: Siemsen/Deatrick, LRL 1730 EDT 09/11/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Ike Commodities Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Louisiana		Calcasieu	1
		Cameron	1
Louisiana	2		
Texas		Anderson	1
		Angelina	1
		Brazoria	12
		Chambers	2
		Cherokee	1
		Fort Bend	15
		Galveston	12
		Hardin	3
		Harris	157
		Houston	1
		Jasper	1
		Jefferson	11
		Liberty	4
		Madison	1
		Matagorda	1
		Montgomery	16
		Newton	1
		Orange	3
		Polk	2
		San Jacinto	2
		Trinity	1
		Tyler	1
		Walker	3
Texas	252		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ike Commodities Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

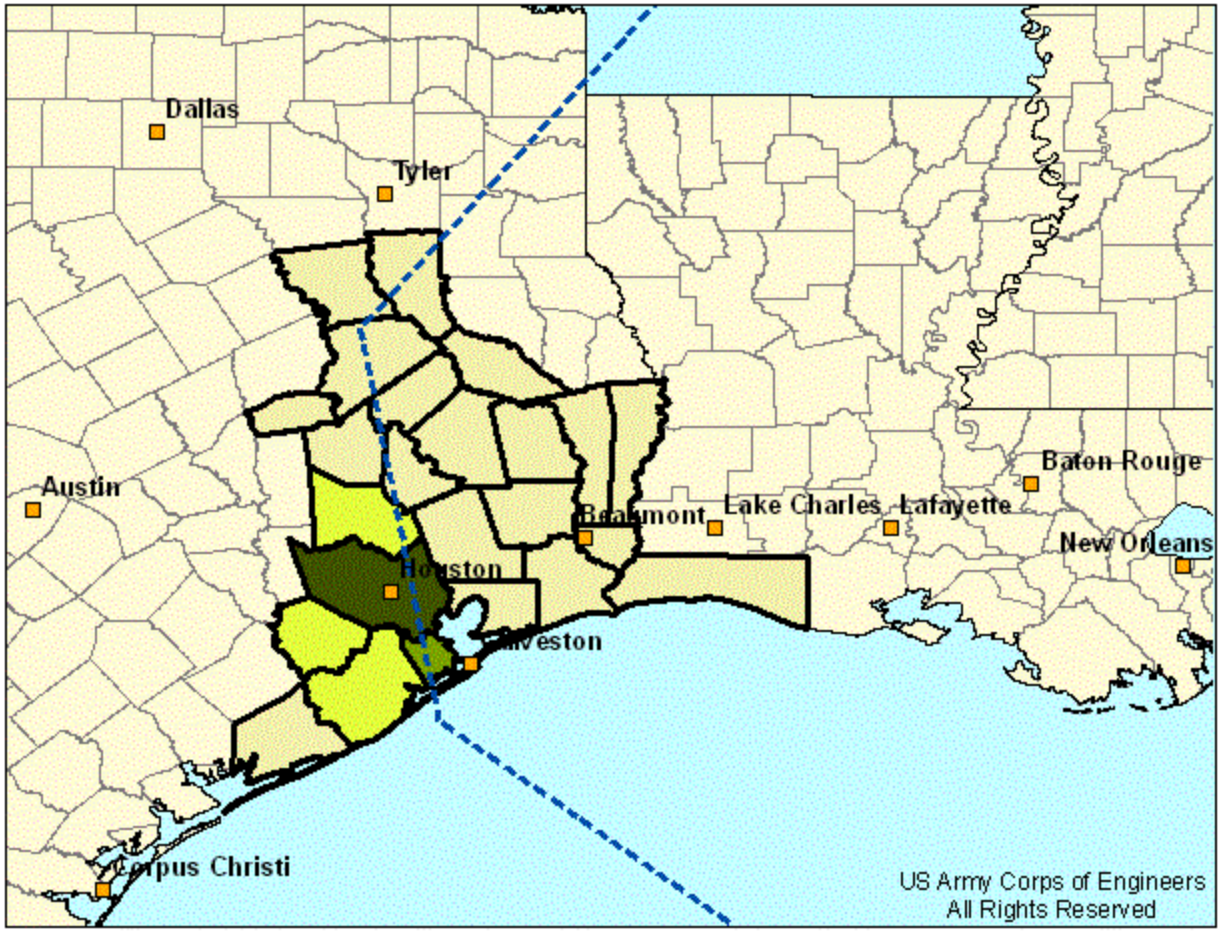
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ike Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About 34 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Texas - 66,200

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 7% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ike Roofing Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ike Temporary Roofing Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Cameron	< 100
Louisiana			
Texas		Anderson	< 100
		Angelina	< 100
		Brazoria	3,600
		Chambers	500
		Cherokee	< 100
		Fort Bend	2,300
		Galveston	7,300
		Hardin	400
		Harris	43,100
		Houston	200
		Jasper	< 100
		Jefferson	1,800
		Liberty	1,200
		Madison	< 100
		Matagorda	< 100
		Montgomery	3,700
		Newton	< 100
		Orange	600
		Polk	400
		San Jacinto	300
		Trinity	200
		Tyler	200
		Walker	400
Texas	66,200		

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 7% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ike Roofing Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

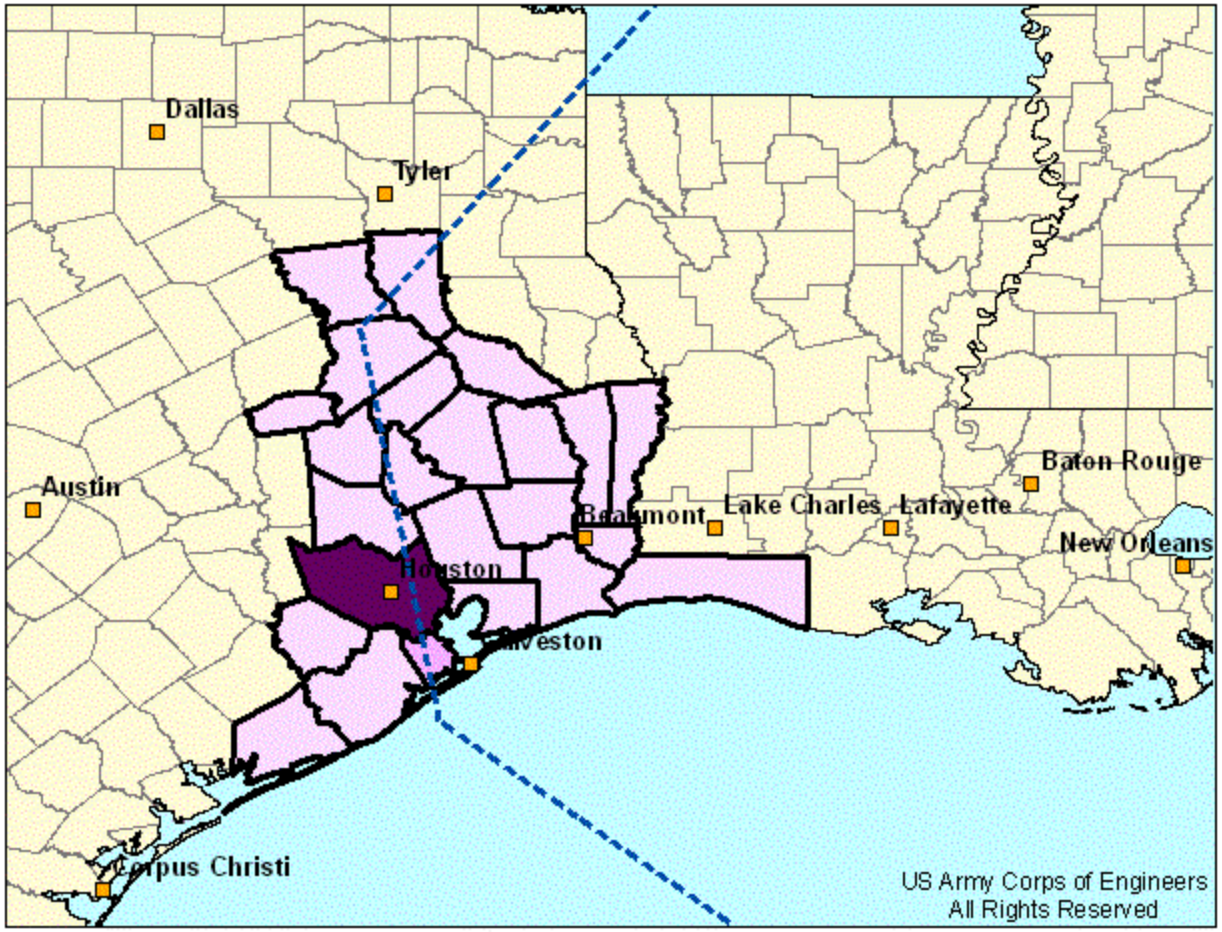
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ike Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About 34 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Texas - 29,300

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast. Temporary housing is based on 1% in CAT 1, 2% in CAT 2 and 3% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ike Housing Model	
Generated By: Siemsen/Deatrick, LRL 1730 EDT 09/11/2008	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Ike Temporary Housing Model

Landfall Expected In About 34 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Cameron	< 100
Louisiana			
Texas		Anderson	< 100
		Angelina	< 100
		Brazoria	1,600
		Chambers	200
		Cherokee	< 100
		Fort Bend	1,200
		Galveston	3,200
		Hardin	200
		Harris	18,900
		Houston	< 100
		Jasper	< 100
		Jefferson	900
		Liberty	500
		Madison	< 100
		Matagorda	< 100
		Montgomery	1,700
		Newton	< 100
		Orange	300
		Polk	200
		San Jacinto	200
		Trinity	< 100
		Tyler	< 100
		Walker	200
Texas	29,300		

Temporary housing is based on 1% in CAT 1, 2% in CAT 2 and 3% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ike Housing Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

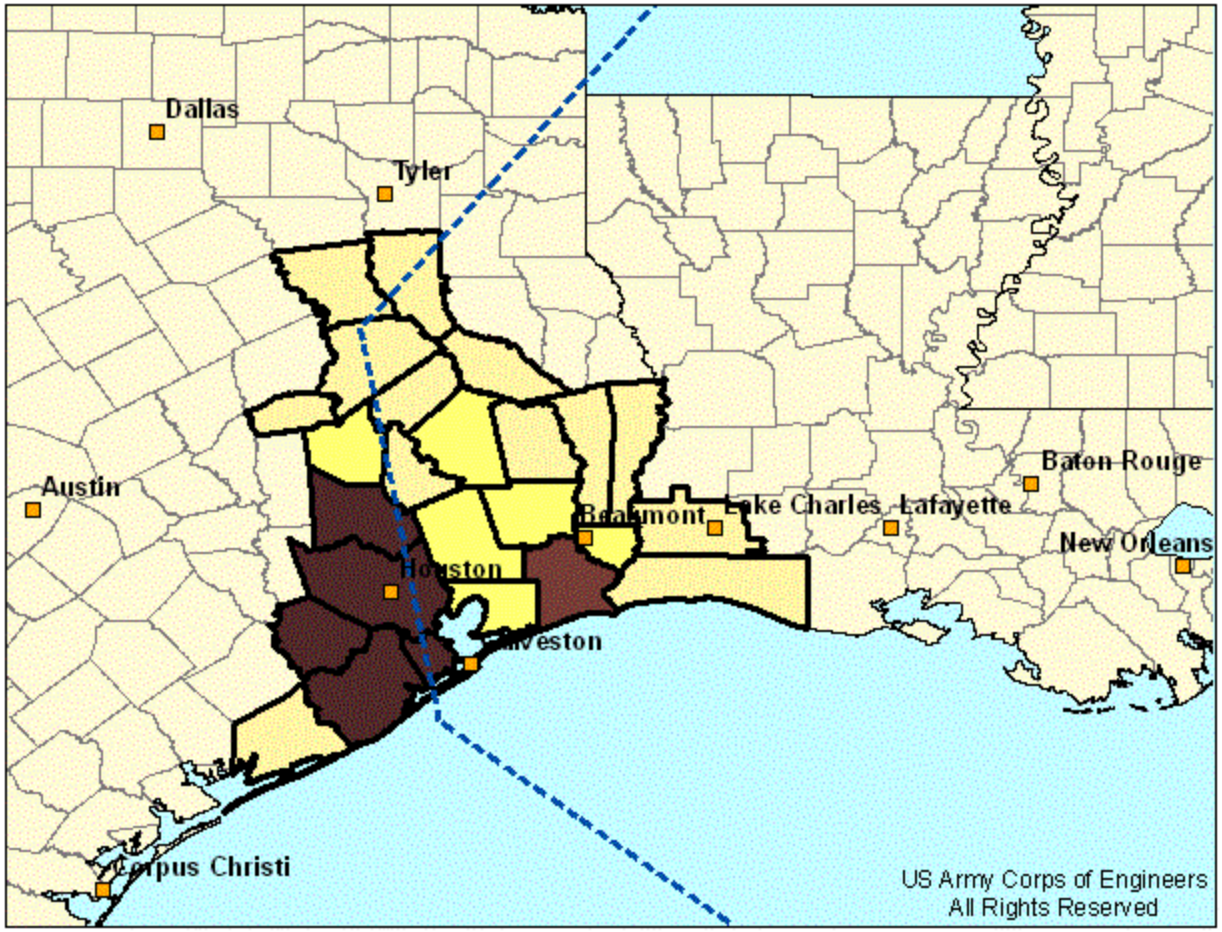
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ike Population Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!



Post Landfall Results – Resident Population Within Hurricane Force Winds

Texas - 5,725,000
Louisiana - 2,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ike Population Model	
Generated By: Siemsen/Deatrick, LRL 1730 EDT 09/11/2008	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Ike Population Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Louisiana		Calcasieu	< 1,000
		Cameron	2,000
Louisiana	2,000		
Texas		Anderson	3,000
		Angelina	6,000
		Brazoria	282,000
		Chambers	29,000
		Cherokee	< 1,000
		Fort Bend	354,000
		Galveston	285,000
		Hardin	52,000
		Harris	3,766,000
		Houston	21,000
		Jasper	9,000
		Jefferson	243,000
		Liberty	76,000
		Madison	< 1,000
		Matagorda	< 1,000
		Montgomery	371,000
		Newton	< 1,000
		Orange	68,000
		Polk	47,000
		San Jacinto	25,000
		Trinity	15,000
		Tyler	19,000
		Walker	54,000
Texas	5,725,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Ike Population Model

Generated By: Siemsen/Deatrick, LRL
1730 EDT 09/11/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ike Households Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!

Post Landfall Results – Resident Households Within Hurricane Force Winds

Texas - 2,030,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Forecast Track

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/11/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane Ike Households Model	
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Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Ike Households Model

Landfall Expected In About **34** Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Louisiana		Cameron	< 1,000
Louisiana			
Texas		Anderson	< 1,000
		Angelina	2,000
		Brazoria	95,000
		Chambers	11,000
		Cherokee	< 1,000
		Fort Bend	111,000
		Galveston	108,000
		Hardin	20,000
		Harris	1,341,000
		Houston	8,000
		Jasper	4,000
		Jefferson	90,000
		Liberty	25,000
		Madison	< 1,000
		Matagorda	< 1,000
		Montgomery	131,000
		Newton	< 1,000
		Orange	26,000
		Polk	18,000
		San Jacinto	10,000
		Trinity	6,000
		Tyler	7,000
		Walker	17,000
Texas	2,030,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane Ike Households Model

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